	Application No.	Applicant(s)
Notice of Allowability	09/856,738	MESTDAGH ET AL.
	Examiner	Art Unit
	Juan A. Torres	2631
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment - After Non-Final Rejection filed on 09/01/2005</u> .		
2. ☑ The allowed claim(s) is/are <u>1,4-27,55 and 56</u> .		
<ul> <li>3.</li></ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal B	atent Application (PTO-152)
Notice of References Cited (PTO-892)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
	Paper No./Mail Dat	te
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of biological Material	9. 🗌 Other	

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### **DETAILED ACTION**

#### **Drawings**

The drawings were received on 09/01/2005. These drawings are accepted by the Examiner.

## Specification

The modifications to the specification were received on 09/01/2005. These modifications are accepted by the Examiner.

# Claim Rejections - 35 USC § 112

In view of the amendment filed on 09/01/2005, the Examiner withdraws the 35 USC § 112 rejection to claims 47-50 of the previous Office Action.

# Response to Arguments

Applicant's arguments filed on 09/01/2005 have been fully considered and they persuasive.

## Allowable Subject Matter

Claims 1, 4-27, and 55-56 are allowed.

The following is an examiner's statement of reasons for allowance: claims 1, 4-27, and 55-56 are allowed because the references cited fail to teach, as applicant has, a transmitter using a decimator providing one sample for every r samples output by a inverse Fast Fourier transform circuit with r = N/n, (N= 4096/p, p=1, 2, 4, 8,..; n=first number of tones used among N); a digital--to-analog converter coupled between the decimator and a subscriber lines comprising on the receiver side an analog-to-digital converter sampling the signal on the subscriber line at a frequency F/r, where F is the

operating frequency of the inverse fast Fourier transform circuit; an interpolator generating samples at frequency F from the samples provided by the analog-to-digital converter; and a fast Fourier transform circuit operating at frequency F and receiving the samples from the interpolator through a time domain equalizer, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is (571) 272-3119. The examiner can normally be reached on Monday-Friday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Juan Alberto Torres 9-20-2005

KEVIN BURD PRIMARY EXAMINER